

## North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)

Number of vehicles: 163
Reporting Period: May 2010

All Trips Combined

All Trips Combined				
Overall gasoline fuel economy (mpg)	49			
Overall AC electrical energy consumption (AC Wh/mi) <sup>1</sup>	55			
Overall DC electrical energy consumption (DC Wh/mi) <sup>2</sup>	40			
Total number of trips	11,977			
Total distance traveled (mi)	110,783			
Trips in Charge Depleting (CD) mode <sup>3</sup>				
Gasoline fuel economy (mpg)	64			
DC electrical energy consumption (DC Wh/mi) <sup>4</sup>	143			
Number of trips	5,083			
Percent of trips city / highway	89% / 11%			
Distance traveled (mi)	22,746			
Percent of total distance traveled	21%			
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes <sup>5</sup>				
Gasoline fuel economy (mpg)	54			
DC electrical energy consumption (DC Wh/mi) <sup>6</sup>	50			
Number of trips	854			
Percent of trips city / highway	47% / 53%			
Distance traveled (mi)	22,390			
Percent of total distance traveled	20%			
Trips in Charge Sustaining (CS) mode <sup>7</sup>				
Gasoline fuel economy (mpg)	44			
Number of trips	6,040			
Percent of trips city / highway	78% / 22%			
Distance traveled (mi)	65,647			
Percent of total distance traveled	59%			
Number of trips when the plug-in battery pack was turned off by the vehicle operator <sup>8</sup>	501			
Distance traveled with plug-in battery pack turned off by the vehicle operator (mi) <sup>9</sup>	11,503			

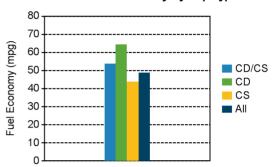
# Vehicle Technologies Program

Date range of data received:

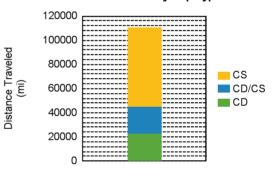
5/1/2010 to 5/31/2010

Number of days the vehicles were driven: 31

### Gasoline Fuel Economy By Trip Type



### **Distance Traveled By Trip Type**

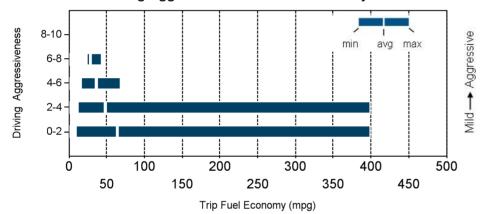


Notes: 1 - 9. Please see http://avt.inel.gov/phev/reportnotes for an explanation of all PHEV Fleet Testing Report notes.

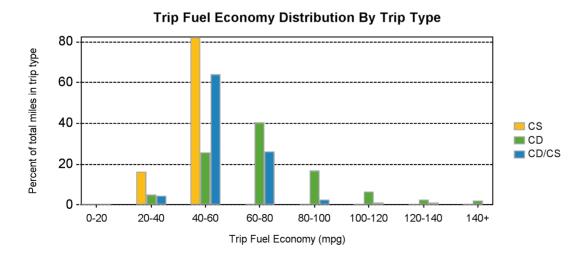
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Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	63	66
DC electrical energy consumption (DC Wh/mi)	162	110
Percent of miles with internal combustion engine off	37%	22%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.9
Average trip distance (mi)	3.2	15.4
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	55	54
DC electrical energy consumption (DC Wh/mi)	80	44
Percent of miles with internal combustion engine off	32%	13%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.6
Average trip distance (mi)	9.6	40.7
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	38	46
Percent of miles with internal combustion engine off	25%	9%
Average trip aggressiveness (on scale 0 - 10)	2.0	1.7
Average trip distance (mi)	3.3	37.3

### **Effect Of Driving Aggressiveness on Fuel Economy This Year**

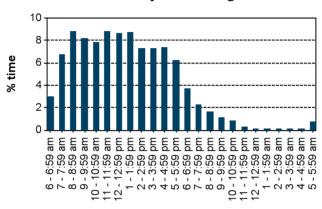


Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.

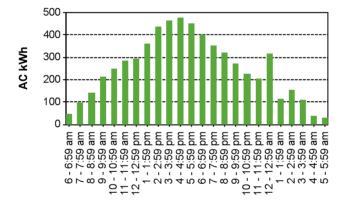


Average number of charging events per vehicle per month when driven	13	
Average number of charging events per vehicle per day when vehicle driven	0.9	
Average distance driven between charging events (mi)	51.2	
Average number of trips between charging events	5.5	
Average time plugged in per charging event (hr)	24.9	
Average time charging per charging event (hr)	2.6	
Average energy per charging event (AC kWh)	2.8	
Average charging energy per vehicle per month (AC kWh)	37.4	
Total number of charging events	2,163	
Total charging energy (AC kWh)	6,059	

### Time of Day When Driving



### Time of Day When Charging



#### Time of Day When Plugging In

